

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 101038,722 A
Source: IFW16
Date Processed by STIC: 3-24-05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/24/2005

PATENT APPLICATION: US/10/038,722A

TIME: 14:43:31

Input Set : A:\D0617.70005US01 seq.txt

Output Set: N:\CRF4\03242005\J038722A.raw

4 <110> APPLICANT: LEY, Arthur C.
 5 GUTERMAN, Sonia K.
 6 MARKLAND, William
 7 KENT, Rachel B.
 8 ROBERTS, Bruce L.
 9 LADNER, Robert C.
 11 <120> TITLE OF INVENTION: ITI-D1 KUNITZ DOMAIN MUTANTS AS HNE INHIBITORS
 13 <130> FILE REFERENCE: D0617.7005US01
 15 <140> CURRENT APPLICATION NUMBER: 10/038,722A
 16 <141> CURRENT FILING DATE: 2002-01-08
 18 <150> PRIOR APPLICATION NUMBER: US 08/849,406
 19 <151> PRIOR FILING DATE: 1999-07-21
 21 <150> PRIOR APPLICATION NUMBER: PCT/US95/16349
 22 <151> PRIOR FILING DATE: 1995-12-15
 24 <150> PRIOR APPLICATION NUMBER: US 08/358,160
 25 <151> PRIOR FILING DATE: 1994-12-16
 27 <150> PRIOR APPLICATION NUMBER: US 08/133,031
 28 <151> PRIOR FILING DATE: 1992-02-28
 30 <160> NUMBER OF SEQ ID NOS: 140
 32 <170> SOFTWARE: PatentIn version 3.1
 35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 276
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 42 <223> OTHER INFORMATION: IIIsp::bpti::matureIII (initial fragment)
 44 <400> SEQUENCE: 1
 45 gtgaaaaaat tattattcgc aattccttta gttgttcctt tctattctgg cgcccgctccg 60
 47 gatttctgtc tgcagccacc atacactggg ccctgcaaag cgcgcatcat ccgctatttc 120
 49 tacaatgcta aagcaggcct gtgccagacc tttgtatacg gtgggtgccg tgctaagcgt 180
 51 aacaacttta aatcggccga agattgcatg cgtacctgcg gtggcgccgc tgaaactggt 240
 53 gaaagtgtt tagcaaaacc ccatacagaa aattca 276
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 92
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Artificial Sequence
 61 <220> FEATURE:
 63 <223> OTHER INFORMATION: IIIsp::bpti::matureIII (initial fragment)
 65 <400> SEQUENCE: 2
 67 Met Lys Lys Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
 68 1 5 10 15
 70 Gly Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys
 71 20 25 30

(pg. 6)

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73 Lys Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys
74      35      40      45
76 Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys
77      50      55      60
79 Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly Ala Ala Glu Thr Val
80 65      70      75      80
82 Glu Ser Cys Leu Ala Lys Pro His Thr Glu Asn Ser
83      85      90
86 <210> SEQ ID NO: 3
87 <211> LENGTH: 285
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
93 <223> OTHER INFORMATION: IIIsp::itiD1::mature III fusion gene
95 <400> SEQUENCE: 3
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98 gactcttgcc agctgggcta ctcgccggt cctgcatgg gaatgaccag caggtatttc      120
100 tataatggta catccatggc ctgtgagact ttccagtacg gcggctgcat gggcaacggt      180
102 aacaacttcg tcacagaaaa ggagtgtctg cagacctgcc gaactgtggg cgccgctgaa      240
104 actgttgaaa gttgttttagc aaaaccccat acagaaaatt catatt      285
107 <210> SEQ ID NO: 4
108 <211> LENGTH: 95
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
114 <223> OTHER INFORMATION: IIIsp::itiD1::mature III fusion gene
116 <400> SEQUENCE: 4
118 Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
119 1      5      10      15
122 Gly Ala Lys Glu Asp Ser Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys
123      20      25      30
125 Met Gly Met Thr Ser Arg Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys
126      35      40      45
128 Glu Thr Phe Gln Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Val
129      50      55      60
131 Thr Glu Lys Glu Cys Leu Gln Thr Cys Arg Thr Val Gly Ala Ala Glu
132 65      70      75      80
134 Thr Val Glu Ser Cys Leu Ala Lys Pro His Thr Glu Asn Ser Phe
135      85      90      95
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 58
140 <212> TYPE: PRT
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
145 <223> OTHER INFORMATION: Consensus Kunitz domain
147 <400> SEQUENCE: 5
149 Arg Pro Asp Phe Cys Leu Leu Pro Ala Glu Thr Gly Pro Cys Arg Ala
150 1      5      10      15
152 Met Ile Pro Arg Phe Tyr Tyr Asn Ala Lys Ser Gly Lys Cys Glu Pro

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153          20          25          30
155 Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys Thr Glu
156          35          40          45
158 Glu Glu Cys Arg Arg Thr Cys Gly Gly Ala
159          50          55
162 <210> SEQ ID NO: 6
163 <211> LENGTH: 58
164 <212> TYPE: PRT
165 <213> ORGANISM: Bos Taurus
167 <400> SEQUENCE: 6
169 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
170 1          5          10          15
172 Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
173          20          25          30
175 Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
176          35          40          45
178 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
179          50          55
182 <210> SEQ ID NO: 7
183 <211> LENGTH: 58
184 <212> TYPE: PRT
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
189 <223> OTHER INFORMATION: Epi-HNE-1
191 <400> SEQUENCE: 7
193 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
194 1          5          10          15
196 Phe Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
197          20          25          30
199 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
200          35          40          45
202 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
203          50          55
206 <210> SEQ ID NO: 8
207 <211> LENGTH: 62
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
213 <223> OTHER INFORMATION: Epi-HNE-2
215 <400> SEQUENCE: 8
217 Glu Ala Glu Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly
218 1          5          10          15
220 Pro Cys Ile Ala Phe Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly
221          20          25          30
223 Leu Cys Gln Thr Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn
224          35          40          45
226 Phe Lys Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
227          50          55          60
230 <210> SEQ ID NO: 9

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231 <211> LENGTH: 58
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
237 <223> OTHER INFORMATION: EpiNE7
239 <400> SEQUENCE: 9
241 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala
242 1 5 10 15
243 Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
244 20 25 30
246 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
247 35 40 45
249 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
250 50 55
253 <210> SEQ ID NO: 10
254 <211> LENGTH: 58
255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
260 <223> OTHER INFORMATION: EpiNE3
262 <400> SEQUENCE: 10
264 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Gly
265 1 5 10 15
267 Phe Phe Ser Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
268 20 25 30
270 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
271 35 40 45
273 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
274 50 55
277 <210> SEQ ID NO: 11
278 <211> LENGTH: 58
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
284 <223> OTHER INFORMATION: EpiNE6
286 <400> SEQUENCE: 11
288 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Gly
289 1 5 10 15
291 Phe Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
292 20 25 30
294 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
295 35 40 45
297 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
298 50 55
301 <210> SEQ ID NO: 12
302 <211> LENGTH: 58
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:

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TIME: 14:43:31

Input Set : A:\D0617.70005US01 seq.txt

Output Set: N:\CRF4\03242005\J038722A.raw

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308 <223> OTHER INFORMATION: EpiNE4
310 <400> SEQUENCE: 12
312 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala
313 1 5 10 15
315 Ile Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
316 20 25 30
318 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
319 35 40 45
321 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
322 50 55
325 <210> SEQ ID NO: 13
326 <211> LENGTH: 58
327 <212> TYPE: PRT
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
332 <223> OTHER INFORMATION: EpiNE8
334 <400> SEQUENCE: 13
336 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala
337 1 5 10 15
339 Phe Phe Lys Arg Ser Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
340 20 25 30
342 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
343 35 40 45
345 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
346 50 55
349 <210> SEQ ID NO: 14
350 <211> LENGTH: 58
351 <212> TYPE: PRT
352 <213> ORGANISM: Artificial Sequence
354 <220> FEATURE:
356 <223> OTHER INFORMATION: EpiNE5
358 <400> SEQUENCE: 14
360 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
361 1 5 10 15
363 Phe Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
364 20 25 30
365 Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
366 35 40 45
368 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
369 50 55
372 <210> SEQ ID NO: 15
373 <211> LENGTH: 58
374 <212> TYPE: PRT
375 <213> ORGANISM: Artificial Sequence
377 <220> FEATURE:
379 <223> OTHER INFORMATION: EpiNE2
381 <400> SEQUENCE: 15
383 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
384 1 5 10 15

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/24/2005
PATENT APPLICATION: US/10/038,722A TIME: 14:43:32

Input Set : A:\D0617.70005US01 seq.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:82; N Pos. 37,38,40,41,42,47,52,56,58,64,65,66,71,72,100,101,103,104
Seq#:82; N Pos. 109,110,124,125,128,133,134
Seq#:83; Xaa Pos. 13,14,16,18,19,20,22,24,34,35,37,42,43,45
Seq#:84; N Pos. 34,35,37,38,39,43,44,49,53,55,56,61,62,63,68,69,97,98,100
Seq#:84; N Pos. 101,106,107,121,122,125,130,131
Seq#:85; Xaa Pos. 12,13,15,17,18,19,21,23,33,34,36,41,42,44
Seq#:86; Xaa Pos. 2,3,4,5,6,7,9,11,12,13,14,15,16,17,18,19,20,21,22,23,24
Seq#:86; Xaa Pos. 25,27,28,30,31,32,35,36,37,38,39,40,41,42,43,44,45,46,48
Seq#:86; Xaa Pos. 49,50
Seq#:103; Xaa Pos. 1
Seq#:104; Xaa Pos. 1
Seq#:106; Xaa Pos. 1
Seq#:109; Xaa Pos. 1
Seq#:119; Xaa Pos. 14
Seq#:123; Xaa Pos. 1
Seq#:127; N Pos. 4,5,6,7,8
Seq#:128; N Pos. 4,5,6,7,8,9,10,11,12

VERIFICATION SUMMARY

DATE: 03/24/2005

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Input Set : A:\D0617.70005US01 seq.txt

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L:2804 M:283 W: Missing Blank Line separator, <220> field identifier
L:2920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
M:341 Repeated in SeqNo=82
L:2987 M:283 W: Missing Blank Line separator, <220> field identifier
L:3009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
M:341 Repeated in SeqNo=83
L:3162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
M:341 Repeated in SeqNo=84
L:3253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
M:341 Repeated in SeqNo=85
L:3312 M:283 W: Missing Blank Line separator, <220> field identifier
L:3351 M:283 W: Missing Blank Line separator, <400> field identifier
L:3353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
M:341 Repeated in SeqNo=86
L:3738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0
L:3763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:3808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:3873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:4079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
L:4172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:4268 M:283 W: Missing Blank Line separator, <400> field identifier
L:4269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:4287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0